PE NUMBER: 0603260F

PE TITLE: Intelligence Advanced Development

	RDT&E BUDGET ITEM J	USTIFIC	ATION	SHEET	(R-2 E)	(hibit)		DATE		ary 2000
BUDGET ACTIVITY <b>04 - Demonst</b>	tration and Validation			_	R AND TITLE <b>)F Intelli</b>	gence A	dvanced	Develop	ment	
	COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Pro	ogram Element (PE) Cost	3,819	4,498	4,401	4,455	4,543	4,634	4,726	Continuing	TBD
643479 Advance	d Sensor Exploitation	814	797	779	816	816	833	848	Continuing	TBD
643480 Automate	ed Imagery Exploitation	775	1,287	1,256	1,313	1,311	1,338	1,364	Continuing	TBD
643481 Knowled	ge Based Tech For Intelligence	1,118	1,313	1,287	1,343	1,352	1,378	1,407	Continuing	TBD
643482 Science	& Tech Intelligence Methodology	1,112	1,101	1,079	983	1,064	1,085	1,107	Continuing	TBD
Quantity	of RDT&E Articles	0	0	0	0	0	0	0	0	0

#### (U) A. Mission Description

(U) Intelligence Advanced Development (IAD) demonstrates and validates advanced technology required to support warfighter needs for timely all source intelligence information. IAD research supports global awareness, consistent battlespace knowledge, precision information, and the execution of time critical missions. IAD projects provide better on-time information to the warfighter using new and existing data sources, streamline data analysis, reduce footprint required, extend life of sensors in place and enhance performance. Air Force Research Lab Rome Research Site (AFRL/IFE) works directly with users, employing a rapid prototyping evolutionary approach, integrating finished modules directly into the field. The programs are oriented toward specific shortfalls and deficiencies as documented by the major commands (MAJCOMS), unified commands, and intelligence organizations in their mission and function area plans. The goal of this program is to expedite technology transition from the laboratory to operational use via rapid prototyping. This AF program is focused on technology insertion to correct AF intelligence deficiencies at tactical or operation levels. This program bridges the transition of Advance Technology Demonstrations (ATDs), Integrated Technology Thrust Programs (ITTPs), and supports Defense Technology Objectives (DTOs).

#### (U) B. Budget Activity Justification

This program is in Demonstration and Validation, Budget Activity 4, because it demonstrates and validates advanced technology which enhances information / intelligence systems capabilities and techniques.

Page 1 of 18 Pages

Exhibit R-2 (PE 0603260F)

	RDT&E BUDGET ITEM JUSTIFI	DATE <b>Febru</b> a	ary 2000		
	Demonstration and Validation	PE NUMBER AND TITLE  0603260F Intelligen	ice Advanced	•	
(U)	C. Program Change Summary (\$ in Thousands)				
(-)	<u> </u>	FY 1999	FY 2000	FY 2001	Total Cost
(U)	Previous President's Budget (FY 2000 PBR)	4,602	4,534	4,442	TBD
(U)	Appropriated Value	4,615	4,534	,	
(U)	Adjustments to Appropriated Value	1,0-2	.,		
(-)	a. Congressional/General Reductions	-13			
	b. Small Business Innovative Research	-125			
	c. Omnibus or Other Above Threshold Reprogram	123	-36		
	d. Below Threshold Reprogram	-637	30		
	e. Rescissions	-21			
	f. Other	21			
(U)	Adjustments to Budget Years Since FY 2000 PBR			-41	
(U)	Current Budget Submit/FY 2001 PBR	3,819	4,498	4,401	TBD
` ′	•	3,017	4,470	4,401	IDD
(U)	Significant Program Changes:				
	None				
l		Page 2 of 18 Pages		Fxhihit R-2	(PE 0603260F)
		1 450 2 01 10 1 4505		LAINDICH Z	( 00002001)

	RDT&E BUDGET ITEM JU	JSTIFIC	ATION S	SHEET	(R-2A E	xhibit)		DATE		ry 2000
	GET ACTIVITY - Demonstration and Validation				R AND TITLE <b>)F Intelli</b>	gence A	dvanced	Develop	ment	PROJECT <b>643479</b>
	COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
6434	79 Advanced Sensor Exploitation	814	797	779	816	816	833	848	Continuing	ТВІ
	The project objectives are to develop, demonstrate at techniques for the receipt, correlation, templating an allowing for the greatest efficiency in terms of integround of intelligence information (Communications Intelligence includes development of the updates and tactical analysis techniques. This including COMINT, ELINT, and IMINT; providing	d analysis of rating or integence - COM lopment of d computerize	battlefield in rfacing with UNT, Electro ata correlation d approach w	nformation. other systen onic Intellige on and predi will speed up	Capabilities ons. There is ence - ELIN ctive intelligo the correlar	s will be dev an Air Forc T, Image Int gence algorit tion of data	eloped in ope, DoD and relligence - Ithms, target from diverse	oen systems Coalition ne MINT) with analysis and e sources of	architecture e ed to correla in seconds a l prioritizatio intelligence i	environment te various source s opposed to hou n, air order of nformation,
(U) (U) (U) (U) (U)	FY 1999 (\$ in Thousands) \$398	cal Tools to S	Support Dyn	amic Situati	on Awarene	ess.				
(U) (U) (U) (U) (U) (U)	FY 2000 (\$ in Thousands)  \$210	ure for Globa	al Awarenes	s.			1.			
(U) (U) (U) (U)	\$393 Complete Network Centric In \$193 Continue Data Fusion Archite \$193 Continue Consistent Battlesp \$779 Total	cture for Glo	bal Awaren	ess.			ion.			

Exhibit R-2A (PE 0603260F)

Project 643479

	RDT&E BUDGET ITEM JUSTIFICATION	SHEET (R	-2A Ex	hibit)	D	February	2000
	BET ACTIVITY  Demonstration and Validation	PE NUMBER A <b>0603260F</b>		ence Advai	nced Deve	lopment	PROJECT <b>643479</b>
(U)	B. Project Change Summary Not Applicable						
(U)	C. Other Program Funding Summary (\$ in Thousands)  FY 1999 FY 2000 Actual Estimate Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
(U)	RELATED ACTIVITIES 62720F C3I Exploratory Development: information exploitation (imagery/vi 63789F C3 Advanced Technology Development: correlation, fusion algorith 63726F C3 Subsystem Integration: advanced information applications, advan 64750F Intelligence Equipment: modeling and simulation, foreign threat asset	nms, visualization nced memory te	n.	aboration, glob	al information	base.	
	31335F Intelligence Data Handling: enhances DoD Intelligence Information	Systems (DoDI	IS).				
(U)	<b>D.</b> Acquisition Strategy All major contracts within this Program Element were awarded after full and	open competition	on.				
(U)	E. Schedule Profile	<u>FY 1999</u>	4	<u>FY :</u>	2000 3 4	<u>FY 2</u>	2 <u>001</u> 3 4
(U)	Consistent Operational Picture, Via Distributed Fusion Completed Enhanced Analytical Tools Completed Predictive Fusion Algorithms Completed Network Centric Information Fusion Initiated Data Fusion Architecture Initiated Consistence Battlespace Picture Build II Initiated * - Denotes completed event X - Denotes planned event		* * *			X X X	
Р	roject 643479 Page	e 4 of 18 Pages				Exhibit R-2A (Pl	E 0603260F)

	RDT&E PROG	RAM ELE	MENT/P	ROJECT C	OST B	REAKDO	WN (R-3)	)	DATE <b>F</b>	ebruary 2	2000
=	BET ACTIVITY  Demonstration and \	/alidation				BER AND TITLE 60F Intellio	gence Adv	/anced De	velopme	nt	PROJECT <b>643479</b>
( <b>U</b> )	A. Project Cost Breakdown	ı (\$ in Thousan	<u>ds</u> )								
(T.T)		. Б	15				FY	1999 200	FY 20	<u>)00</u>	FY 2001
(U)	Consistent Operational Pictu	re via Distribute	d Fusion					398			
(U)	Enhanced Analytical Tools							198	2	10	102
(U)	Predictive Fusion Algorithms Network Centric Information							218		10	193
(U)										94	393
(U)	Consistent Battlespace Pictur	re Build II						014		93	193
(U)	Total							814	1	97	779
(U)	<b>B. Budget Acquisition Histo</b>	ory and Plannir	<u>ig Informatio</u>	n (\$ in Thousand	<u>s)</u>						
<b>(U)</b>	<b>Performing Organizations:</b>										
	Contractor or	Contract									
	Government	Method/Type	Award or	<b>Performing</b>	<b>Project</b>						
	Performing	or Funding	<b>Obligation</b>	<u>Activity</u>	<u>Office</u>	Total Prior	<b>Budget</b>	<u>Budget</u>	<u>Budget</u>	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 1999	FY 1999	FY 2000	FY 2001	Complete	<u>Program</u>
	Product Development Organi										
	Electic Computing Concepts	CPFF				350	398	210	0	Continuing	TBD
	96-C-0045										
	BTG, Inc 97-C-0341	CPFF				100	198	194	0	Continuing	
	BTG, Inc	CPFF				0	218	393	393	Continuing	TBD
	97-C-0341										
	Contractor TBD	TBD				0	0	0	193	Continuing	
	Contractor TBD	TBD				0	0	0	193	Continuing	TBD
	Support and Management Or	ganizations									
	N/A										
	Test and Evaluation Organiza	ations									
	N/A										
_				ъ	5 C10 D				E. 1. 2	-:4 D 0 /DE /	) (10000000
Р	roject 643479			Page	e 5 of 18 Pa	iges			Exhi	oit R-3 (PE (	J6U326UF)

DET ACTIVITY  Demonstration and \ Government Furnished Pro	/alidation			PE NUMB	RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)									
Government Furnished Pro	emonstration and Validation					jence Adv	anced De	velopmer		PROJECT <b>643479</b>				
Item Description Product Development Propert N/A	Contract Method/Type or Funding Vehicle	Award or Obligation Date	<u>Delivery</u> <u>Date</u>		Total Prior to FY 1999	<u>Budget</u> FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	<u>Total</u> <u>Program</u>				
Test and Evaluation Property  Subtotals Subtotal Product Development	nt				Total Prior to FY 1999 450	Budget FY 1999 814	Budget FY 2000 797 797	Budget FY 2001 779 779	Budget to Complete TBD	Total Program TBD TBD				
	Description Product Development Proper N/A Support and Management Pro Test and Evaluation Property  Subtotals Subtotal Product Development Subtotal Support and Manage Subtotal Test and Evaluation	Description Vehicle Product Development Property N/A Support and Management Property Test and Evaluation Property  Subtotals Subtotal Product Development Subtotal Support and Management Subtotal Test and Evaluation Total Project	Description Vehicle Date  Product Development Property N/A Support and Management Property Test and Evaluation Property  Subtotals Subtotal Product Development Subtotal Support and Management Subtotal Test and Evaluation Total Project	Description Vehicle Date Date Product Development Property N/A Support and Management Property Test and Evaluation Property  Subtotals Subtotal Product Development Subtotal Support and Management Subtotal Test and Evaluation Total Project	Description Vehicle Date Date Product Development Property N/A Support and Management Property Test and Evaluation Property  Subtotals Subtotal Product Development Subtotal Support and Management Subtotal Test and Evaluation Total Project	Description Vehicle Date Date to FY 1999 Product Development Property N/A Support and Management Property Test and Evaluation Property  Subtotals to FY 1999 Subtotal Product Development 450 Subtotal Support and Management Subtotal Test and Evaluation Total Project 450	Description Vehicle Date Date to FY 1999 FY 1999 Product Development Property N/A Support and Management Property Test and Evaluation Property  Subtotals to FY 1999 FY 1999 Subtotal Product Development 450 814 Subtotal Support and Management Subtotal Test and Evaluation Total Project 450 814	Description Vehicle Date Date to FY 1999 FY 2000 Product Development Property N/A Support and Management Property Test and Evaluation Property  Subtotals Subtotal Product Development Subtotal Support and Management Subtotal Project	Description Vehicle Date Date to FY 1999 FY 1999 FY 2000 FY 2001 Product Development Property N/A Support and Management Property Test and Evaluation Property  Subtotals Subtotal Product Development Subtotal Product Development Subtotal Product Development Subtotal Project  Total Prior Budget Budget to FY 1999 FY 2000 FY 2001 Subtotal Product Development Subtotal Project  Total Prior Budget Budget to FY 1999 FY 2000 FY 2001 Subtotal Project  450 814 797 779  Total Project  450 814 797 779  Total Project  Total Prior Budget	Description Vehicle Date Date to FY 1999 FY 1999 FY 2000 FY 2001 Complete Product Development Property N/A Support and Management Property Test and Evaluation Property  Subtotals to FY 1999 FY 1999 FY 2000 FY 2001 Complete Subtotal Product Development 450 814 797 779 TBD Subtotal Support and Management Subtotal Test and Evaluation Total Project 450 814 797 779 TBD  Total Project 450 814 797 779 TBD  Total Project 450 814 797 779 TBD				

RDT&E BUDGET ITEM JU	JSTIFIC	ATION S	SHEET (	(R-2A E	xhibit)		DATE	Februa	ry 2000
BUDGET ACTIVITY  04 - Demonstration and Validation			PE NUMBER <b>060326</b> 0			dvanced	Develop	ment	PROJECT <b>643480</b>
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
643480 Automated Imagery Exploitation	775	1,287	1,256	1,313	1,311	1,338	1,364	Continuing	TBD

#### (U) A. Mission Description

This project demonstrates and validates the capability to more accurately and quickly interpret digital imagery and video by evaluating computer assisted techniques to manipulate and overlay imagery, cartographic data, signal intelligence (SIGINT), and on line intelligence data. The result of this effort will be more precise target locations and identifications, precise target reference scenes, and more accurate damage assessments; all developed for easy supportability on low cost commercially available computer workstations

#### (U) <u>FY 1999 (\$ in Thousands)</u>

- (U) \$264 Completed Multi-Processor development for Automated Image Exploitation.
- (U) \$189 Completed Speech Technology for Image Exploitation.
- (U) \$161 Completed Techniques for Secure Image Information Dissemination Secure Steganography.
- (U) \$161 Continued Distributed Imagery Information Systems Integration in support of Information Superiority (Phase 2).
- (U) \$775 Total

#### (U) FY 2000 (\$ in Thousands)

- (U) \$856 Continue Distributed Imagery Information Systems Integration in support of Information Superiority (Phases 3, 4, and 5).
- (U) \$431 Initiate Multi-Spectral/Hyper Spectral Image Exploitation Applications
- (U) \$1,287 Total

#### (U) FY 2001 (\$ in Thousands)

(U) \$867 Complete Distributed Imagery Information Systems Integration in support of Information Superiority (Phases 3, 4, and 5).

(U) \$389 Continue Multi-Spectral / Hyper-Spectral Image Exploitation Applications.

(U) \$1,256 Total

#### (U) B. Project Change Summary

Not Applicable

Project 643480 Page 7 of 18 Pages Exhibit R-2A (PE 0603260F)

	RDT&E BUDGE	T ITEM JUST	IFICATION	SHEET (	R-2A Ex	hibit)	D	February	2000
	GET ACTIVITY - <b>Demonstration and Validat</b>	ion		PE NUMBER <b>0603260</b>		ence Adva	nced Deve	lopment	PROJECT <b>643480</b>
(U)		7 1999 FY 2000 Actual Estimate t: information exploivelopment: correlati dvanced imagery/info eling and simulation,	Estimate  itation (imagery / von, fusion algorithormation application foreign threat ass	nms, visualizat ons, advanced essment.	ion. memory techi		FY 2005 Estimate obal information	Cost to Complete on base.	Total Cost
(U)	D. Acquisition Strategy All major contracts within this Progra	nm Element were awa	arded after full and	l open compet	ition.				
(U) (U) (U) (U) (U) (U)	Multi Processors for Automated Imag Speech Technology for Image Exploit Secure Image Information Disseminat Multi Spectral / Hyper Spectral Image Distributed Imagery Information Syste * - Denotes completed event X - Denotes planned even	tation Completed ion Completed Applications Initiate		FY 1999 2 3 *		1 2 **	2000 3 4	1 2	2 <u>001</u> 3 4
F	Project 643480		Page	e 8 of 18 Page	s			Exhibit R-2A (PE	0603260F)

	RDT&E PROG	RAM ELE	MENT/P	ROJECT C	OST BI	REAKDO	WN (R-3)	)	DATE <b>F</b>	ebruary 2	000
	GET ACTIVITY  Demonstration and V	/alidation				er and title 60F Intellig	gence Adv	anced De	velopme	nt	PROJECT <b>643480</b>
(U)	A. Project Cost Breakdown	(\$ in Thousan	<u>ds</u> )								
							FY	<u> 1999</u>	FY 20	000	FY 2001
(U)	Multi Processor for Automate		itation					264			
(U)	Speech Technology for Image	e Exploitation						189			
(U)	Secure Image Information Di	ssemination						161			
(U)	Distributed Imagery Informat	ion System Inte	egration					161	8:	56	867
(U)	Multi Spectral / Hyper Spectr	al Image Explo	itation Applic	ations					4.	31	389
(U)	Total							775	1,2	87	1,256
(U)	<b>B. Budget Acquisition Histo</b>	ry and Plannir	<u>ng Informatio</u>	n (\$ in Thousand	<u>s)</u>						
(U)	<b>Performing Organizations:</b>										
	Contractor or	Contract									
	Government	Method/Type	Award or	<u>Performing</u>	<b>Project</b>						
	Performing	or Funding	<b>Obligation</b>	<u>Activity</u>	<u>Office</u>	Total Prior	<b>Budget</b>	<u>Budget</u>	<u>Budget</u>	Budget to	<u>Total</u>
	<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 1999	FY 1999	FY 2000	FY 2001	Complete	<u>Program</u>
	Product Development Organiz	zations									
	Nichols Research 96-C-0083	CPFF	May 96			0	264	0	0	Continuing	TBD
	State University of New York	CPFF	Jun 96			0	161	0	0	Continuing	TBD
	at Binghamton										
	97-C-0105	CPFF	Feb 98			0	189	0	0	Continuing	TBD
	PAR, Inc.	CPFF	Jun 98			0	161	429	481	Continuing	TBD
	98-C-0166										
	PAR, Inc.	TBD	TBD			0	0	431	389	Continuing	TBD
	State University of New York	TBD	TBD			0	0	230	189	Continuing	TBD
	at Binghamton										
	Synectics	TBD	TBD			0	0	197	197	Continuing	TBD
	Support and Management Org	ganizations									
	N/A										·
	Test and Evaluation Organiza	tions									
l	N/A										
Р	roject 643480			Page	9 of 18 Pa	iges			Exhil	oit R-3 (PE 0	0603260F)

	RDT&E PROC	GRAM ELE	MENT/F	ROJECT	COST BI	REAKDO	WN (R-3)	)	DATE <b>February 2000</b>			
=	GET ACTIVITY  - Demonstration and '	Validation				er and title <b>30F Intellig</b>	ence Adv	anced De	velopmer		PROJECT <b>643480</b>	
	Item Description Product Development Proper N/A Support and Management Pr N/A Test and Evaluation Property N/A Subtotals Subtotal Product Developme Subtotal Support and Manag Subtotal Test and Evaluation Total Project	operty: Contract Method/Type or Funding Yehicle rty operty	Award or Obligation Date	Delivery Date		Total Prior to FY 1999  Total Prior to FY 1999 0 0	Budget FY 1999  Budget FY 1999  775  775	Budget FY 2000 Budget FY 2000 1,287	Budget FY 2001 Budget FY 2001 1,256	Budget to Complete  Budget to Complete TBD  TBD	Total Program Total Program TBD	
F	Project 643480			P	Page 10 of 18 Pa	nges			Exhib	it R-3 (PE 0	603260F)	

R	DT&E BUDGET ITEM JU	STIFIC	ATION :	SHEET	(R-2A E	xhibit)		DATE		ry 2000
BUDGET ACTIVITY <b>04 - Demonst</b> i	ration and Validation				R AND TITLE <b>)F Intelli</b>	gence A	dvanced	Develop	ment	PROJECT <b>643481</b>
C	COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
643481 Knowledg	e Based Tech For Intelligence	1,118	1,313	1,287	1,343	1,352	1,378	1,407	Continuing	TBD
commands or	will improve Global Awareness, Dynam n AF intelligence organizations. The deness derived will provide warning time a	velopment of and accuracy ence Analys Prototype, e	of the analyti y, allowing r ts Productiv xpert system	cal aids is ba national/mili- ity at AIA.	ased on artifitary authorit	icial intelligies a greater	ence techniq range of op support real	tions to aver	creased time t, diminish o	liness, efficiency or control a crisis.
(U) \$307 (U) \$295 (U) \$1,118	Continued Intelligence Applic Total			-	•		_	у.		
(U) FY 2000 (\$ i (U) \$488 (U) \$488 (U) \$337 (U) \$1,313	n Thousands) Complete Machine Learning F Continue Multimedia for Infor Continue Intelligence Applica Total	mation Acc	ess for analy	sts at AIA a	nd users of l	lmagery.		time analys	is of timeline	28.
(U) FY 2001 (\$ i (U) \$488 (U) \$488 (U) \$311 (U) \$1,287	n Thousands) Complete Multimedia for Info Continue Intelligence Applica Initiate Secure Information De Total	tion Browse	r Interfaces	for warfighte	ers and analy	sts at ACC	and AIA.			
(U) <u>B. Project C</u> Not Applicab	<b>hange Summary</b> ble									
Project 64348 <sup>2</sup>	1		Page	11 of 18 Pag	es			Ex	khibit R-2A	(PE 0603260F)

	RDT&E BUDGET ITEM JUST	TIFICATION	SHEET (	R-2A Exl	nibit)	DA	February 2000		
-	GET ACTIVITY  - Demonstration and Validation		_	R AND TITLE F Intellige	ence Adva	nced Devel	opment	PROJECT <b>643481</b>	
	C. Other Program Funding Summary (\$ in Thousands FY 1999 FY 2000 Actual Estimate Related Activities: 62720F C3I Exploratory Development: information explo	0 FY 2001 te Estimate			FY 2004 Estimate boration, glob	FY 2005 Estimate al information b	Cost to Complete pase.	<u>Total Cost</u>	
	63726F C3 Subsystem Integration: advanced information 64750F Intelligence Equipment: modeling and simulation 31335F Intelligence Data Handling: enhances DoD Intelli	n, foreign threat a	ssessment.						
(U)	D. Acquisition Strategy All major contracts within this Program Element were aw	varded after full a	nd open compet	ition.					
(U) (U) (U) (U) (U)	E. Schedule Profile  (U) Enhancing Intelligence Analysts Productivity Complet (U) Machine Learning Prototype Complete (U) Multimedia Information Access Complete (U) Secure Information Delivery Initiated * - Denotes completed event X - Denotes planned event	1 eted	FY 1999 2		1 2	2000 3 4 X	1 2	2001 3 4 X X	
Р	roject 643481	Pag	ge 12 of 18 Page	es			Exhibit R-2A (P	E 0603260F)	

	RDT&E PROC	RAM ELE	MENT/F	ROJECT C	OST B	REAKDO	WN (R-3)	)	DATE <b>F</b>	ebruary 2	000
	BET ACTIVITY  Demonstration and V	Validation				BER AND TITLE 60F Intellig	gence Adv	anced De	velopme	nt	PROJECT <b>643481</b>
(U)	A. Project Cost Breakdown	ı (\$ in Thousan	<u>ds</u> )								
							FY.		FY 20	<u>)000</u>	FY 2001
(U)	Enhancing Intelligence Ana	•	ty					242	4.		
(U)	Machine Learning Prototyp							274		88	400
(U)	Multimedia for Information		_					307 295		88 37	488 488
(U)	Intelligence Applications B Secure Information Deliver		es .					295	3.	3 /	488 311
(U) (U)	Total	У					1	118	1,3	12	1,287
							1,	110	1,3	13	1,207
<b>(U)</b>	<b>B. Budget Acquisition Histo</b>	ory and Plannin	<u>ig Informatio</u>	on (\$ in Thousand	<u>ls</u> )						
(U)	<b>Performing Organizations:</b>										
	Contractor or	Contract									
	Government	Method/Type	Award or	<b>Performing</b>	<b>Project</b>						
	Performing	or Funding	<b>Obligation</b>	<u>Activity</u>	Office Office	Total Prior	<b>Budget</b>	<b>Budget</b>	<u>Budget</u>	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 1999	FY 1999	FY 2000	FY 2001	Complete	<b>Program</b>
	Product Development Organ	izations									
	GTE 96-C-0085	CPFF	May 96			200	274	488		Continuing	TBD
	Booz Allen 96-C-0092	CPFF	Jun 96			58	242			Continuing	TBD
	Kaman Science 97-C-0053	CPFF	May 96			0	307	488	488	Continuing	TBD
	Synectics Corp 97-C-0073	CPFF	Jul 96			0	295	337	488	Continuing	TBD
	Contractor TBD	TBD	TBD			0	0	0	311	Continuing	TBD
	Support and Management Or	ganizations									
	N/A										ı
	Test and Evaluation Organiza	ations									
	N/A										I
(U)	<b>Government Furnished Pro</b>	perty:									
		Contract									
		Method/Type	Award or								
I	<u>Item</u>	or Funding	<b>Obligation</b>	<u>Delivery</u>		Total Prior	<b>Budget</b>	<b>Budget</b>	<u>Budget</u>	Budget to	<u>Total</u>
l	Description	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>		to FY 1999	FY 1999	FY 2000	FY 2001	Complete	<u>Program</u>
P	roject 643481			Page	13 of 18 Pa	ages			Exhil	oit R-3 (PE 0	603260F)

RDT&E PROC	RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										
BUDGET ACTIVITY  04 - Demonstration and V	JDGET ACTIVITY 4 - Demonstration and Validation						PE NUMBER AND TITLE  0603260F Intelligence Advanced Dev				
(U) Government Furnished Pro  Item Description Product Development Proper N/A Support and Management Pro N/A Test and Evaluation Property	Contract Method/Type A or Funding G Vehicle I operty	: Award or Obligation Date	<u>Delivery</u> <u>Date</u>		Total Prior to FY 1999	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	<u>Total</u> <u>Program</u>	
N/A <u>Subtotals</u> Subtotal Product Developme  Subtotal Support and Manage	ement				Total Prior to FY 1999 258	Budget FY 1999 1,118	Budget FY 2000 1,313	Budget FY 2001 1,287	Budget to Complete TBD	<u>Total</u> <u>Program</u> TBD	
Subtotal Test and Evaluation Total Project	ı				258	1,118	1,313	1,287	TBD	TBD	
Project 643481			]	Page 14 of 18 Pa	iges			Exhib	it R-3 (PE 06	603260F)	

	RDT8	E BUDGET ITEM JUS	STIFIC	ATION S	SHEET	(R-2A E	xhibit)		DATE	Februa	ry 2000
	SET ACTIVITY  Demonstration	and Validation			R AND TITLE <b>)F Intelli</b>	gence A	Develop	ment	PROJECT <b>643482</b>		
	COST (\$	in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
6434	643482 Science & Tech Intelligence Methodology 1,112 1,101					983	1,064	1,085	1,107	Continuing	ТВІ
(U)	requirements. The r	<b>tion</b> alidates intelligence methodologies methods and techniques will help A lities of these systems.								_	
(U) (U) (U) (U) (U)	FY 1999 (\$ in Thou \$397 \$397 \$318 \$1,112	Continued Intelligence Analyst Associate (Build 2) for Automated Information Extraction Continued Missile System Reentry Vehicle Algorithm Enhancements for NAIC									
(U) (U) (U) (U) (U)	Continue Intelligence Analyst Associate (Build 2) for Automated Information Extraction.  Continue Missile System Reentry Vehicle Algorithm Enhancements for NAIC.  Continue Radio Frequency Weapons Modeling Improvements (HEIMDAL2+) (includes Laser Weapons Modeling Code (LODUR). (Reference companion PE 64750, Intelligence Equipment.)										
(U) (U) (U) (U) (U)	FY 2001 (\$ in Thou \$390 \$390 \$299 \$1,079 B. Project Change	Complete Intelligence Analyst A Continue Missile System Reent Continue Radio Frequency Wea Laser Weapons Modeling Code Total	ry Vehicle apons Mode	Algorithm I	Enhancemen vements (HE	ts for NAIC. IMDAL2+)	(includes I	-		g Code (LOI	DUR). (includes

Exhibit R-2A (PE 0603260F)

Project 643482

	RDT&E BUDGET ITEM JUSTIFICAT	ION :	SHEET (	R-2A Ex	hibit)	D	February	y 2000
	GET ACTIVITY  - Demonstration and Validation		PE NUMBER <b>0603260</b>		ence Adva	nced Deve	lopment	PROJECT <b>643482</b>
	C. Other Program Funding Summary (\$ in Thousands)  FY 1999 FY 2000 Actual Estimate Estimate Estimate 63720F C3I Exploratory Development: information exploitation(images 63789F C3 Advanced Technology Development: correlation, fusion as 63726F C3 Subsystem Integration: advanced information technology 64750F Intelligence Equipment: modeling and simulation, foreign that 31335F Intelligence Data Handling: enhances DoD Intelligence Information	nate ge/video algorith , advano reat asso	ms, visualizat ced memory to essment.	ion. echnology.	FY 2004 Estimate oration, global	FY 2005 Estimate information bas	<u>Cost to</u> <u>Complete</u> se.	Total Cost
(U)	D. Acquisition Strategy All major contracts within this Program Element were awarded after it	full and	open competi	tion.				
(U) (U) (U)	E. Schedule Profile  Applied Deception Techniques Completed Radio Frequency Modeling Continuing (under this PE as well as PE 64750 Intel Analyst Associate (Build 2) Completed * - Denotes completed event X - Denotes planned event	1	<u>FY 1999</u> 2 3	4 *	1 2 X	7 <u>2000</u> 3 4	1 2	2001 3 4
Р	Project 643482	Page	16 of 18 Page	S			Exhibit R-2A (P	E 0603260F)

	RDT&E PRO	GRAM ELE	MENT/P	ROJECT C	OST BI	REAKDO	WN (R-3)		DATE <b>F</b> (	ebruary 2	2000
	BET ACTIVITY  Demonstration and	Validation				er and title 8 <b>0F Intelli</b> ç	gence Adv	anced De	velopme	nt	PROJECT <b>643482</b>
( <b>U</b> )	A. Project Cost Breakdow	n (\$ in Thousan	<u>ds</u> )				FY	1000	FY 20	.00	FY 2001
(U)	Applied Deception Techniq	1100						1 <u>999</u> 397	<u>FY 20</u>	<u>00</u>	<u>FY 2001</u>
(U)	Intelligence Analysts Assoc							397 397	39	90	390
(U)	Missile System Reentry Vel		Enhancement					318	39		390
(U)	Radio Frequency (RF) Mod	_	3mmuneement					510	32		299
(U)	Total	ciiig					1,	112	1,10		1,079
(U)	B. Budget Acquisition Hist	ory and Plannir	ng Informatio	on (\$ in Thousand	<u>ls)</u>						
(U)	<b>Performing Organizations</b>	<b>:</b>									
	Contractor or	<b>Contract</b>									
	Government	Method/Type	Award or	<u>Performing</u>	<b>Project</b>						
	Performing	or Funding	<b>Obligation</b>	<u>Activity</u>	<u>Office</u>	Total Prior	<u>Budget</u>	<b>Budget</b>	<b>Budget</b>	Budget to	
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 1999</u>	FY 1999	FY 2000	FY 2001	Complete	<u>Program</u>
	Product Development Organ										
	Calspan 96-C-0108	CPFF	Sep 96			87	397	390	390	Continuing	
	E-Systems 96-C-0194	CPFF	Sep 96			19	397	0	0	Continuing	
	Calspan 96-C-0108	CPFF	Jul 98			0	318	390	390	Continuing	
	Contractor TBD	TBD	TBD			0	0	321	299	Continuing	TBD
	Support and Management O N/A	<u>rganizations</u>									
	Test and Evaluation Organiz N/A	zations									
(U)	<b>Government Furnished Pr</b>	operty:									
		Contract									
		Method/Type	Award or								
	<u>Item</u>	or Funding	<b>Obligation</b>	<u>Delivery</u>		Total Prior	<b>Budget</b>	<b>Budget</b>	<u>Budget</u>	Budget to	<u>Total</u>
	Description	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>		to FY 1999	FY 1999	FY 2000	FY 2001	Complete	<u>Program</u>
	Product Development Prope N/A	<u>rty</u>									
P	roject 643482			Page	17 of 18 Pa	nges			Exhib	oit R-3 (PE (	0603260F)

	RDT&E PROGRAM ELEMENT/PR	DATE <b>F</b> (	February 2000				
	GET ACTIVITY - Demonstration and Validation	PE NUMBER AND TITLE 0603260F Intellig	velopment velopment		PROJECT <b>643482</b>		
(U)	Government Furnished Property Continued: Support and Management Property N/A Test and Evaluation Property N/A						
	Subtotals Subtotal Product Development Subtotal Support and Management Subtotal Test and Evaluation	<u>Total Prior</u> to FY 1999 106	<u>Budget</u> <u>FY 1999</u> 1,112	<u>Budget</u> <u>FY 2000</u> 1,101	Budget FY 2001 1,079	Budget to Complete TBD	<u>Total</u> <u>Program</u> TBD
	Total Project	106	1,112	1,101	1,079	TBD	TBD
F	Project 643482	Page 18 of 18 Pages			Exhib	it R-3 (PE 0	603260F)